

Applicant : Klaus Schulz et al.
Serial No. : 09/672,571
Filed : September 27, 2000
Page : 5 of 19

Attorney's Docket No.: 12754-051001 / 00P7411

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A pluggable transceiver comprising:
a housing having a front end configured to couple to a transmission cable and a back end configured to be inserted into a cage; ~~[[and]]~~
a cam disposed on an exposed bottom outer surface of ~~[[the]]~~ a transceiver housing and configured to engage the transceiver within the cage; and
a release mechanism attached to the bottom surface of the housing between the cam and the front end of the housing and selectively movable between at least a first position and a second position, where the release mechanism is in the first position when the transceiver is engaged within the cage and is moved along the bottom surface from the first position toward the cam and into the second position to disengage the transceiver from the cage.
2. (Original) The pluggable transceiver of claim 1, wherein the cam has a chamfered surface exposed for contact with the cage latch as the transceiver is being inserted into the cage.
3. (Original) The pluggable transceiver of claim 2, wherein the chamfered surface of the cam is rectangular.
4. (Original) The pluggable transceiver of claim 2, wherein the chamfered surface of the cam tapers from the front end to the back end of the transceiver housing.
5. Cancelled

Applicant : Klaus Schulz et al.
Serial No. : 09/672,571
Filed : September 27, 2000
Page : 6 of 19

Attorney's Docket No.: 12754-051001 / 00P7411

6. (Previously Presented) The pluggable transceiver of claim 1 5, wherein the release mechanism comprises a release block configured to slide into the second position to disengage the transceiver from the cage.

7. (Original) The pluggable transceiver of claim 6, wherein the release block comprises a chamfered surface exposed for contact with the cage latch.

8. (Currently Amended) A cage configured to receive a pluggable transceiver having a transceiver cam, comprising:

a substantially rectangular shaped cage housing forming an interior region and having [[a]]an open front end for receiving the pluggable transceiver and defining a slot for engaging the transceiver cam, where the cage housing is configured to shield a transceiver housed within the interior region against electromagnetic interference; and

a latch disposed at the front end of the cage housing and configured to bend outwardly from an original position in response to a force applied by the transceiver cam as the transceiver is being inserted into the cage and to resiliently return to the original position upon engagement of the transceiver cam with the slot defined in the front end of the cage housing, wherein the latch includes a front end having an inner surface that flares outwardly away from [[an]]the interior region of the cage housing.

9. Cancelled.

10. (Original) The cage of claim 8, wherein the cage housing is configured to shield against electromagnetic interference.

11. (Original) The cage of claim 8, further comprising an ejection mechanism configured to engage and apply an ejection force against the pluggable transceiver when disposed within the cage housing.

12. (Original) The cage of claim 8, further comprising a circuit card connector disposed in a back end of the cage housing and configured to couple the pluggable transceiver to a circuit card.

Applicant : Klaus Schulz et al.
Serial No. : 09/672,571
Filed : September 27, 2000
Page : 7 of 19

Attorney's Docket No.: 12754-051001 / 00P7411

13. (Original) The cage of claim 8, wherein the cage latch is formed integrally with the cage housing.

14. (Original) The cage of claim 8, wherein the cage housing is configured to engage an opening in an electromagnetic enclosure.

15. (Currently Amended) A data coupling system, comprising:

a pluggable transceiver comprising a housing having a front end configured to couple to a transmission cable, [[and]] the transceiver housing including a cam disposed on an exposed outer surface of the transceiver housing and a release mechanism disposed on the exposed outer surface of the transceiver housing between the front end and the cam and configured to disengage the cam from a cage slot; and

a cage comprising a cage housing having a front end for receiving the pluggable transceiver and defining a cage slot for engaging the transceiver cam, and a latch disposed at the front end of the cage housing, the latch including a front end having an inner surface that flares outwardly away from an interior region of the cage housing;

wherein the transceiver cam is configured to displace the cage latch and engage the cage slot upon insertion of the transceiver housing into the cage, and the cage latch is configured to bend outwardly from an original position in response to a force applied by the transceiver cam as the transceiver is being inserted into the cage and to resiliently return to the original position upon engagement of the transceiver cam and the slot defined in the front end of the cage housing.

16. (Original) The data coupling system of claim 15, wherein the cam has a chamfered surface exposed for contact with the cage latch as the transceiver is being inserted into the cage.

17. ~~Cancelled. The data coupling system of claim 15, further comprising a release mechanism disposed on a bottom surface of the transceiver housing and configured to disengage the cam from the cage slot.~~

Applicant : Klaus Schulz et al.
Serial No. : 09/672,571
Filed : September 27, 2000
Page : 8 of 19

Attorney's Docket No.: 12754-051001 / 00P7411

18. (Currently Amended) The data coupling system of claim ~~[[17]]~~15, wherein the release mechanism comprises a release block configured to slide into engagement with the cage latch to disengage the cam from the cage slot.

19. (Original) The data coupling system of claim 18, wherein the release block comprises a chamfered surface exposed for contact with the cage latch.

20. (Original) The data coupling system of claim 15, wherein the cage further comprises an ejection mechanism configured to engage and apply an ejection force against the pluggable transceiver when disposed within the cage housing.

21. (Currently Amended) The data coupling system of claim 17, wherein the release mechanism is selectively movable between at least a first position and a second position, where the release mechanism is in the first position when the transceiver is engaged within the cage and is moved along the bottom surface from the first position toward the cam and into the second position to disengage the transceiver from the cage.

22. (Previously Presented) The cage of claim 8, wherein the housing further includes an upper portion, a lower portion and at least two sidewalls thereby forming an interior region and wherein the pluggable transceiver is received into the interior region.

23. (Currently Amended) The cage of claim ~~[[21]]~~22, wherein the upper portion of the housing includes one or more resilient springs that are configured to engage an opening in a panel of an electromagnetically shielded electronic equipment enclosure.

24. (Currently Amended) A cage configured to receive a pluggable transceiver having a transceiver cam, comprising:

a substantially rectangular shaped cage housing forming an interior region and having a front end for receiving the pluggable transceiver and defining a slot for engaging the transceiver cam, where the cage housing is configured to shield a pluggable transceiver housed in the interior region against electromagnetic interference; and

Applicant : Klaus Schulz et al.
Serial No. : 09/672,571
Filed : September 27, 2000
Page : 9 of 19

Attorney's Docket No.: 12754-051001 / 00P7411

a latch disposed at the front end of the cage housing and configured to bend outwardly from an original position in response to a force applied by the transceiver cam as the transceiver is being inserted into the cage and to resiliently return to the original position upon engagement of the transceiver cam with the slot defined in the front end of the cage housing, ~~wherein the cage housing is configured to shield against electromagnetic interference.~~

25. (Previously Presented) The cage of claim 24, wherein the latch includes a front end having an inner surface that flares outwardly away from an interior region of the cage housing.
26. (Previously Presented) The cage of claim 24, further comprising an ejection mechanism configured to engage and apply an ejection force against the pluggable transceiver when disposed within the cage housing.
27. (Previously Presented) The cage of claim 24, further comprising a circuit card connector disposed in a back end of the cage housing and configured to couple the pluggable transceiver to a circuit card.
28. (Previously Presented) The cage of claim 24, wherein the housing further includes an upper portion, a lower portion and at least two sidewalls thereby forming an interior region and wherein the pluggable transceiver is received into the interior region.
29. (New) A pluggable transceiver comprising:
- a substantially rectangular shaped housing having a front end configured to couple to a transmission cable and a back end;
 - a cam disposed on an exposed bottom outer surface of the transceiver housing, the bottom surface substantially perpendicular to the front end and the back end;
 - a longitudinal slot defined in the bottom surface of the housing; and
 - a release block attached to the bottom surface of the housing between the front end and the cam, and slidable within the longitudinal slot between a first position and a second position,

Applicant : Klaus Schulz et al.
Serial No. : 09/672,571
Filed : September 27, 2000
Page : 10 of 19

Attorney's Docket No.: 12754-051001 / 00P7411

where the release block is slid within the longitudinal slot from the first position toward the cam and into the second position to disengage the cam from engagement with a latch.